

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: February 12, 1997
Date Received: February 6, 1997
Project: Metro Self Monitor, PO #M56105
Date Samples Extracted: February 10, 1997
Date Extracts Analyzed: February 10, 1997

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M56105	0.69	0.65	0.67	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 75740 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.69	0.67	3	0-20
Copper	mg/L (ppm)	0.65	0.67	3	0-20
Nickel	mg/L (ppm)	0.67	0.71	6	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 75740 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.69	95	100	80-120	5
Copper	mg/L (ppm)	5	0.65	95	99	80-120	4
Nickel	mg/L (ppm)	10	0.67	92	95	80-120	3
Zinc	mg/L (ppm)	5	<0.05	92	94	80-120	2

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	95	96	80-120	1
Copper	mg/L (ppm)	5	92	94	80-120	2
Nickel	mg/L (ppm)	10	92	93	80-120	1
Zinc	mg/L (ppm)	5	91	92	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

18282

2:00

Date 2/6/97

PURCHASE ORDER #

m 56105

PROJECT LOCATION

3200 6th Ave S.

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

File #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
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[illegible]

Date/Time
Sampled

Type of Sample

of
Jars

Lab
Sample #

Analyses Requested

12. 5. 05

2/6/57 1:00^{pm}

 H_2O

/

75740

Ca Ce Ni Zn

23

PRINT NAME

COMPANY

Date _____

Time

GENERO Thompson

AC on

$$\frac{2}{6} \frac{1}{52}$$

1:55 PM

Tom RUSSELL

FBI

02.06.97

1:55

09/19/94

AKC-0011716

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

February 12, 1997

**INVOICE # 97ACU0212-1
DUPLICATE COPY**

**Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

**RE: Project Metro Self Monitor, PO #M56105: Results of testing requested by
Gerry Thompson, Project Manager for material submitted on February 6,
1997.**

**1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample**

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

February 12, 1997

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 6, 1997 from your Metro Self Monitor, PO #M56105 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

A handwritten signature in black ink, appearing to read 'Kurt Johnson', with a stylized flourish at the end.

Kurt Johnson
Chemist

keh
Enclosures
ACU0212R.DOC

-8282

on To: Alaskan Copper Works Contact George Thompson
628 Harbor
Seattle WA 98134
(206) 382-8379 Date 2-13-97

PROJECT NAME		PURCHASE ORDER #	
METRO SELF MONITOR		M 56206	
S (signature)		PROJECT LOCATION	
		3200 6 th Ave S.	
		SAMPLE DISPOSAL INFORMATION	
		<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

RE	PRINT NAME	COMPANY	Date	Time
by: <i>[Signature]</i>		<i>ACW</i>	<i>2/13/92</i>	
<i>Mi</i>	MANUEL MARTI	FBI	2/13/92	1:50 PM
by:				